

Vydyne® A 10 GF BK KW2

polyamide 66



Vydyne A 10 GF BK KW2 is standard flow, organic heat stabilized, 10% glass-fiber reinforced PA66 resin. This product is also lubricated for improved machine feed and flow and maintains the excellent resistance typical of PA66 in chemicals, machine and motor oils, solvents, and gasoline.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer	• Lubricant	
Features	• Balanced Stiffness/Toughness • Electrical Corrosion Resistant • General Purpose • Good Flow • Good Processability • Good Surface Finish • Homopolymer • Non-Corrosive	• Bromine Free • Fatigue Resistant • Good Color Stability • Good Heat Resistance • Good Rigidity • Good Tensile Strength • Lubricated • Organic Heat Stabilized	• Chemical Resistant • Gasoline Resistant • Good Electrical Properties • Good Impact Strength • Good Strength • Halogen Content, None • Medium Viscosity • Thermal Stability
Agency Rating	• ISO, 1043 PA66 GF10		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding	• Other Extrusion	• Profile Extrusion

Physical	dry	cond.	Unit	Test Standard
Density	1.20	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.1	*	%	
Flow : 23°C, 2.00 mm	0.7	*	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.3	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	5300	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	110	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5	-	%	ISO 527-2

Impact	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	5	-	kJ/m ²	ISO 180/1A

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Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	235	-	°C	
0.45 MPa, Unannealed	245	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3

Electrical	Value	Unit	Test Standard
Comparative Tracking Index (3.00 mm)	575	V	IEC 60112

Flammability	Value	Unit	Test Standard
Flammability			UL 94
1.60 mm	HB	-	
3.20 mm	HB	-	
Glow Wire Flammability Index			IEC 60695-2-12
2.00 mm	650	°C	

Injection	Value	Unit
Drying Temperature	80 - 110	°C
Drying Time	3 - 4	h
Rear Temperature	270 - 295	°C
Middle Temperature	275 - 295	°C
Front Temperature	280 - 300	°C
Nozzle temperature	280 - 300	°C
Processing (Melt) Temperature	280 - 295	°C
Mold Temperature	70 - 95	°C

Extrusion	Value	Unit
Cylinder Zone 1 Temp	255 - 265	°C
Cylinder Zone 2 Temp	260 - 270	°C
Cylinder Zone 3 Temp	270 - 280	°C
Cylinder Zone 4 Temp	275 - 290	°C
Cylinder Zone 5 Temp	275 - 290	°C
Melt temperature	270 - 280	°C
Die temperature	270 - 280	°C

